



## 9.30 Borough of Netcong

This section presents the jurisdictional annex for the Borough of Netcong.

### 9.30.1 Hazard Mitigation Plan Point of Contact

The following individuals have been identified as the hazard mitigation plan's primary and alternate points of contact.

Primary Point of Contact	Alternate Point of Contact
Wayne Anthony, OEM Coordinator 23 Maple Avenue, Netcong, NJ 07857 845-368-6143 wayneanthony@optonline.net	Robert Guerin, Engineer 23 Maple Avenue, Netcong, NJ 07857 973-252-9340 bguerin@guerinvreeland.com

### 9.30.2 Municipal Profile

The Borough Netcong is a residential community of approximately 0.9 square miles and located in northwestern Morris County. The Borough is bordered to the north by the Borough of Stanhope, to the southeast by the Township of Roxbury and to the south and west by the Township of Mount Olive. The principal waterway in the Borough is the Musconetcong River which originates in Lake Hopatcong. According to the U.S. Census, the 2010 population for the Borough of Netcong was 3,232.

### Growth/Development Trends

The following table summarizes recent residential/commercial development since 2010 to present and any known or anticipated major residential/commercial development and major infrastructure development that has been identified in the next five years within the municipality. Refer to the map in section 9.30.8 of this annex which illustrates the hazard areas along with the location of potential new development.

**Table 9.30-1. Growth and Development**

Property or Development Name	Type (e.g., Res., Comm.)	# of Units/ Structures	Location (address and/or Block & Lot)	Known Hazard Zone(s)	Description/Status of Development
<b>Recent Development from 2010 to present</b>					
None identified.					
<b>Known or Anticipated Development in the Next Five (5) Years</b>					
Transit Village Redevelopment Project	Residential Commercial	340 Res. Units 25,000 S.F. Commercial	Block 19, Lots 15-21, 20.01, 22, 23, 28, 28.01, 2, 35-38	No known Hazard	Planning Stage
Pocketbook Factory Redevelopment Project	Residential	78 Apartments	2 Flanders Road Block 19, Lot 14	No known Hazard	Land-Use Board Approval Granted

\* Only location-specific hazard zones or vulnerabilities identified.

### 9.30.3 Natural Hazard Event History Specific to the Municipality

Morris County has a history of natural and non-natural hazard events as detailed in Volume I, Section 5.0 of this plan. A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities. For the purpose of this plan update, events that have occurred in the County from 2008 to present were summarized to indicate the range and impact of hazard



events in the community. Information regarding specific damages is included, if available, based on reference material or local sources. This information is presented in the table below. For details of these and additional events, refer to Volume I, Section 5.0 of this plan.

**Table 9.30-2. Hazard Event History**

Dates of Event	Event Type	FEMA Declaration # (If Applicable)	County Designated?	Summary of Damages/Losses
Aug 2, 2007	Thunderstorm	N/A	N/A	Streets and Basement of homes flooded
Aug 10, 2007	Thunderstorm	N/A	N/A	Streets and Basement of homes flooded
Oct. 11, 2007	Thunderstorm	N/A	N/A	Streets and Basement of homes flooded
August 26 – September 5, 2011	Hurricane Irene	EM-3332 DR-4021	Yes Yes	Streets and Basement of homes flooded
September 28 – October 6, 2011	Remnants of Tropical Storm Lee	DR-4039	No	Streets and Basement of homes flooded
October 26 – November 8, 2012	Hurricane Sandy	EM-3354 DR-4086	Yes Yes	Streets and Basement of homes flooded. Power out for approximately 10 days

### 9.30.4 Hazard Vulnerabilities and Ranking

The hazard profiles in Section 5.0 of this plan have detailed information regarding each plan participant's vulnerability to the identified hazards. The following summarizes the hazard vulnerabilities and their ranking in the Borough of Netcong. For additional vulnerability information relevant to this jurisdiction, refer to Section 5.0.

#### Hazard Risk/Vulnerability Risk Ranking

The table below summarizes the hazard risk/vulnerability rankings of potential hazards for the Borough of Netcong.

**Table 9.30-3. Hazard Risk/Vulnerability Risk Ranking**

Hazard type	Estimate of Potential Dollar Losses to Structures Vulnerable to the Hazard <sup>a, c</sup>	Probability of Occurrence	Risk Ranking Score (Probability x Impact)	Hazard Ranking <sup>b</sup>
Drought	Damage estimate not available	Frequent	27	Medium
Dam Failure	Damage estimate not available	Occasional	24	Medium
Earthquake	500-year MRP: \$467,238 2,500-year MRP: \$9,295,996	Occasional	24	Medium
Extreme Temperature	Damage estimate not available	Frequent	27	Medium
Flood	1% Annual Chance: \$162,822	Frequent	18	Medium
Geological Hazards	Exposed to Class A and Class B: \$0	Occasional	12	Low
Severe Storm	100-Year MRP: \$471,352 500-year MRP: \$5,565,562 Annualized: \$33,174	Frequent	48	High
Winter Storm	1% GBS: \$9,364,774 5% GBS: \$46,823,870	Frequent	54	High



Hazard type	Estimate of Potential Dollar Losses to Structures Vulnerable to the Hazard <sup>a, c</sup>	Probability of Occurrence	Risk Ranking Score (Probability x Impact)	Hazard Ranking <sup>b</sup>
Wildfire	Estimated Value Exposed to Extreme, Very High and High: \$806,433	Frequent	18	Medium
Disease Outbreak	Damage estimate not available	Frequent	36	High
Hazardous Materials	Damage estimate not available	Frequent	36	High
Infestation	Damage estimate not available	Frequent	18	Medium

**Notes:**

- a. Building damage ratio estimates based on FEMA 386-2 (August 2001)
- b. The valuation of general building stock and loss estimates was based on custom inventory for the municipality.  
 High = Total hazard priority risk ranking score of 31 and above  
 Medium = Total hazard priority risk ranking of 20-30+  
 Low = Total hazard risk ranking below 20
- c. Loss estimates for the severe storm and severe winter storm hazards are structural values only and do not include the value of contents.
- d. Loss estimates for the flood and earthquake hazards represent both structure and contents.
- e. The HAZUS-MH earthquake model results are reported by Census Tract.

### National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Borough of Netcong.

**Table 9.30-4. NFIP Summary**

Municipality	# Policies (1)	# Claims (Losses) (1)	Total Loss Payments (2)	# Rep. Loss Prop. (1)	# Severe Rep. Loss Prop. (1)	# Policies in 100-year Boundary (3)
Netcong Borough	3	3	\$1,017,297.07	0	0	0

Source: FEMA Region 2, 2014

(1) Policies, claims, repetitive loss and severe repetitive loss statistics provided by FEMA Region 3, and are current as of 9/30/2014. Please note the total number of repetitive loss properties includes the severe repetitive loss properties. The number of claims represents claims closed by 9/30/14.

(2) Total building and content losses from the claims file provided by FEMA Region 2.

(3) The policies inside and outside of the flood zones is based on the latitude and longitude provided by FEMA Region 2 in the policy file.

Notes: FEMA noted that where there is more than one entry for a property, there may be more than one policy in force or more than one GIS possibility.  
 A zero percentage denotes less than 1/100th percentage and not zero damages or vulnerability as may be the case.  
 Number of policies and claims and claims total exclude properties located outside County boundary, based on provided latitude and longitude.

### Critical Facilities

The Borough of Netcong does not have any identified critical facilities located within the 1- or 0.2-percent annual chance flood areas.

### Other Vulnerabilities Identified

Flooding in the Borough of Netcong is caused primarily by the Musconetcong River. More extensive flooding in the Borough occurs mostly in the late summer and early fall (FEMA FIS 2010).



### 9.30.5 Capability Assessment

This section identifies the following capabilities of the local jurisdiction:

- Planning and regulatory capability
- Administrative and technical capability
- Fiscal capability
- Community classification
- National Flood Insurance Program
- Integration of Mitigation Planning into Existing and Future Planning Mechanisms

#### Planning and Regulatory Capability

The table below summarizes the regulatory tools that are available to the Borough of Netcong.

**Table 9.30-5. Planning and Regulatory Tools**

Tool / Program (code, ordinance, plan)	Do you have this? (Yes/No) If Yes, date of adoption or update	Authority (local, county, state, federal)	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
<b>Planning Capability</b>				
Master Plan	Yes, 9/1978	Local	Planning Board	Netcong Master Plan
Capital Improvements Plan	No			
Floodplain Management / Basin Plan	No			
Stormwater Management Plan	Yes, 3/2005	Local	Borough Engineer	Netcong Stormwater Management Plan
Open Space Plan	No			
Stream Corridor Management Plan	No			
Watershed Management or Protection Plan	No			
Economic Development Plan	No			
Comprehensive Emergency Management Plan	Yes	Local	OEM	Municipal Emergency Operations Plan
Emergency Response Plan	No			
Post-Disaster Recovery Plan	No			
Transportation Plan	Yes, 12/2006	Local	Netcong School	Netcong School Travel Plan
Strategic Recovery Planning Report	No			
Other Plans:	No			
<b>Regulatory Capability</b>				
Building Code	Yes	State & Local		State Uniform Construction Code Act (N.J.S. 52:27D-119 et seq.)
Zoning Ordinance	Yes	Local	Zoning Officer	Borough Ord. 194-51 through 194-70
Subdivision Ordinance	Yes	Local	Land-Use Board	Borough Ord. 194-45 through 194-50
NFIP Flood Damage Prevention	Yes	Federal,	Borough	Borough Ord. 64-7



Tool / Program (code, ordinance, plan)	Do you have this? (Yes/No) If Yes, date of adoption or update	Authority (local, county, state, federal)	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
Ordinance		State, Local	Engineer	
NFIP: Cumulative Substantial Damages	No			
NFIP: Freeboard	Yes	State, Local		
Growth Management Ordinances	No			
Site Plan Review Requirements	Yes	Local	Land-Use Board	Borough Ord. 194-33 through 194-44
Stormwater Management Ordinance	4-13-2006	State & Local	Land-Use Board	Borough Ord. 194-89 through 194-100
Municipal Separate Storm Sewer System (MS4)	Yes	State & Local	Borough Engineer	Borough Ord. 238
Natural Hazard Ordinance	No			
Post-Disaster Recovery Ordinance	No			
Real Estate Disclosure Requirement	Yes	State	Division of Consumer Affairs	N.J.A.C. 13:45A-29.1
Other [Special Purpose Ordinances (i.e., sensitive areas, steep slope)]	9-12-1989	Local	Land-Use Board	Borough Ord. 194-85 through 194-88

### Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Borough of Netcong.

**Table 9.30-6. Administrative and Technical Capabilities**

Resources	Is this in place? (Yes or No)	Department/ Agency/Position
<b>Administrative Capability</b>		
Planning Board	Yes	Land-Use Board
Mitigation Planning Committee	No	
Environmental Board/Commission	No	
Open Space Board/Committee	No	
Economic Development Commission/Committee	Yes	Borough Council
Maintenance Programs to Reduce Risk	No	
Mutual Aid Agreements	No	
<b>Technical/Staffing Capability</b>		
Planner(s) or Engineer(s) with knowledge of land development and land management practices	Yes	Borough Engineer, Borough Planner
Engineer(s) or Professional(s) trained in construction practices related to buildings and/or infrastructure	Yes	Borough Engineer, Borough Construction Official
Planners or engineers with an understanding of natural hazards	Yes	Borough Engineer
NFIP Floodplain Administrator	Yes	Ralph Blakeslee
Surveyor(s)	No	



Resources	Is this in place? (Yes or No)	Department/ Agency/Position
Personnel skilled or trained in GIS and/or Hazus-MH applications	Yes	Borough Engineer
Scientist familiar with natural hazards	No	
Emergency Manager	Yes	Emergency Management Coordinator
Grant Writer(s)	Yes	Borough Engineer, Borough Administrator
Staff with expertise or training in benefit/cost analysis	Yes	Borough Administrator
Professionals trained in conducting damage assessments	No	

### Fiscal Capability

The table below summarizes financial resources available to the Borough of Netcong.

**Table 9.30-7. Fiscal Capabilities**

Financial Resources	Accessible or Eligible to Use (Yes/No/Don't Know)
Community Development Block Grants (CDBG, CDBG-DR)	Yes
Capital Improvements Project Funding	Yes
Authority to Levy Taxes for specific purposes	Yes
User fees for water, sewer, gas, or electric service	Yes
Impact Fees for homebuyers or developers of new development/homes	Yes
Stormwater Utility Fee	No
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	Yes
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No
Other Federal or State Funding Programs	Yes
Open Space Acquisition Funding Programs	No
Other	No

### Community Classifications

The table below summarizes classifications for community program available to the Borough of Netcong.

**Table 9.30-8. Community Classifications**

Program	Do you have this? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No		
Building Code Effectiveness Grading Schedule (BCEGS)	Yes	4	TBD
Public Protection (ISO Fire Protection Classes 1 to 10)	Yes	5	TBD
Storm Ready	No		
Firewise	No		
Disaster/Safety Programs in/for Schools	Yes	N/A	N/A



Program	Do you have this? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Organizations with Mitigation Focus (advocacy group, non-government)	No		
Public Education Program/Outreach (through website, social media)	No		
Public-Private Partnerships	Yes		

N/A = Not applicable. NP = Not participating. - = Unavailable. TBD = To be determined.

The classifications listed above relate to the community's ability to provide effective services to lessen its vulnerability to the hazards identified. These classifications can be viewed as a gauge of the community's capabilities in all phases of emergency management (preparedness, response, recovery and mitigation) and are used as an underwriting parameter for determining the costs of various forms of insurance. The CRS class applies to flood insurance while the BCEGS and Public Protection classifications apply to standard property insurance. CRS classifications range on a scale of 1 to 10 with class 1 being the best possible classification, and class 10 representing no classification benefit. Firewise classifications include a higher classification when the subject property is located beyond 1000 feet of a creditable fire hydrant and is within 5 road miles of a recognized Fire Station.

Criteria for classification credits are outlined in the following documents:

- The Community Rating System Coordinators Manual
- The Building Code Effectiveness Grading Schedule
- The ISO Mitigation online ISO's Public Protection website at <http://www.isomitigation.com/ppc/0000/ppc0001.html>
- The National Weather Service Storm Ready website at <http://www.weather.gov/stormready/howto.htm>
- The National Firewise Communities website at <http://firewise.org/>

### Self-Assessment of Capability

The table below provides an approximate measure of Netcong's capability to work in a hazard-mitigation capacity and/or effectively implement hazard mitigation strategies to reduce hazard vulnerabilities.

**Table 9.30-9. Self-Assessment Capability for the Municipality**

Area	Degree of Hazard Mitigation Capability		
	Limited (If limited, what are your obstacles?)*	Moderate	High
Planning and Regulatory Capability		X	
Administrative and Technical Capability	X (limited Personnel)		
Fiscal Capability	X (limited Funds)		
Community Political Capability		X	
Community Resiliency Capability		X	
Capability to Integrate Mitigation into Municipal Processes and Activities.		X	



## National Flood Insurance Program

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### NFIP Floodplain Administrator

Ralph Blakeslee, Borough Administrator

### Flood Vulnerability Summary

The Borough of Netcong does not maintain lists or inventories of properties that have been damaged by floods. There were no structures damaged during Hurricane Sandy and the Borough FPA did not make Substantial Damage estimates. There is currently no interest in mitigation (elevation or acquisition) within the Borough.

### Resources

The FPA is supported by the Borough's engineer, attorney, emergency management coordinator, DPW and police department to conduct the responsibilities of floodplain administration within the Borough of Netcong. Currently, the FPA does not provide any NFIP administration services and functions to the Borough. The Borough does not provide any education or outreach to the community regarding flood hazards/risk or flood risk reduction. The FPA indicated that he is not aware of any barriers to running an effective floodplain management program and that he feels adequately supported and trained to fulfill his responsibilities as the Borough's FPA. The FPA would not consider attending education and/or certification training on floodplain management if it were offered.

### Compliance History

The Borough of Netcong is currently in good standing with the NFIP. It is unknown when the most recent compliance audit was conducted for the community.

### Regulatory

The Borough's floodplain management regulations/ordinances meet the minimum requirements for FEMA and the State. There are no other local ordinances, plans or programs that support floodplain management and meet NFIP requirements. The Borough of Netcong does not participate in the Community Rating System (CRS) program and it is unknown if the Borough has considered joining the CRS program.

## Integration of Hazard Mitigation into Existing and Future Planning Mechanisms

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For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. As part of this planning effort, each community was surveyed to obtain a better understanding of their community's progress in plan integration. A summary is provided below. In addition, the community identified specific integration activities that will be incorporated into municipal procedures.

### Regulatory and Enforcement

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Prior to land use, zoning changes or development permitting, the Borough reviews the current hazard mitigation plan to ensure consistent and compatible land use. Additionally, the Borough encourages the consideration of low occupancy, low-density zoning in hazard areas when practical. The permit review process in the Borough includes the addressing of hazards. The Borough's rezoning procedures recognizes hazard areas as limits on zoning changes. When the Borough updates its municipal codes and ordinances, hazard mitigation is a priority.



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### **Operational and Administration**

The Borough has plans and practices in place that protect the natural resources of the community, including Land Development Procedures (Chapter 194 of the Borough Ordinance). Hazard mitigation actions are incorporated into daily operations of the Borough and all projects are a goal of the community.

### **Education and Outreach**

The Borough has a public outreach program that informs its citizens on hazards. Additionally, the Borough utilizes Nixle which allows the community to provide important information (alerts, advisories, community information, traffic, etc.) to the residents of the Borough. The Borough also provides news and event information on the homepage of their website (<http://netcong.org/>).

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## **9.30.6 Mitigation Strategy and Prioritization**

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and prioritization.

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### **Past Mitigation Initiative Status**

The following table indicates progress on the community's mitigation strategy identified in the 2010 Plan. Actions that are carried forward as part of this plan update are included in the following subsection in its own table with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such in the following table and may also be found under 'Capability Assessment' presented previously in this annex.



Table 9.30-10. Past Mitigation Initiative Status

2010 Mitigation Action	Lead	Status Select using drop-down list (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step Select using drop-down list (Include in 2015 HMP or Discontinue)	Describe Next Step • If including action in 2015 HMP, revise/reword to be more specific (as appropriate). • If discontinuing, explain why.
Netcong 1: Engineering study to determine mitigation action including cleaning culverts and improving drainage for the following streets: Railroad Avenue, Maple Street, Ledgewood Avenue, Bank Street, and Flanders Avenue.	Netcong Borough Engineer/Administrator	No Progress	No funding secured	Discontinue	Working with the NJDOT and NJDEP to divert stormwater to areas where flooding is not an issue. This action will not be included in the 2015 HMP Update.
Netcong 2: Flood proofing Municipal Building/ Police Department (data storage) on 23 Maple Avenue.	Netcong Borough Engineer/Administrator	No Progress	Budget Constraints	Include in 2015 HMP	Due to budget constraints, this project has not been completed. This action will be included in the 2015 HMP Update.
Netcong 3: Risk assessment of dam on Lake Musconetcong.	Netcong Borough Engineer/ Morris County	No Progress	No Funding Secured	Discontinue	No funding has been secured for this project. This action will not be included in the 2015 HMP Update.
Netcong 4: Flood proofing/roof replacement/backup power for DPW located on Maple Avenue.	Netcong Borough Public Works Superintendent	Complete	Replaced roof and installed emergency generator at the DPW Facility	Discontinue	This project has been completed and will not be included in the 2015 HMP Update.
Netcong 5: Develop all-hazards public education and outreach program for hazard mitigation and preparedness.	County and Municipal OEM	In Progress	Budget Constraints	Include in 2015 HMP	This action is currently in progress and will be included in the 2015 HMP Update.



### Proposed Hazard Mitigation Initiatives for the Plan Update

The Borough of Netcong participated in a mitigation action workshop in January 2015 and was provided the following FEMA publications to use as a resource as part of their comprehensive review of all possible activities and mitigation measures to address their hazards: FEMA 551 ‘Selecting Appropriate Mitigation Measures for Floodprone Structures’ (March 2007) and FEMA ‘Mitigation Ideas – A Resource for Reducing Risk to Natural Hazards’ (January 2013).

Table 9.30-11 summarizes the comprehensive-range of specific mitigation initiatives the Borough of Netcong would like to pursue in the future to reduce the effects of hazards. Some of these initiatives may be previous actions carried forward for this plan update. These initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table below to further demonstrate the wide-range of activities and mitigation measures selected.

As discussed in Section 6, fourteen evaluation/prioritization criteria are used to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing your actions as ‘High,’ ‘Medium,’ or ‘Low.’ The table below summarizes the evaluation of each mitigation initiative, listed by Action Number.

Table 9.30-12 provides a summary of the prioritization of all proposed mitigation initiatives for the Plan update.



**Table 9.30-11. Proposed Hazard Mitigation Initiatives**

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priorit y	Mitigation Category	CRS Category
Netcong-1 (old Netcong 2)	Flood proofing Municipal Building/ Police Department (data storage) on 23 Maple Avenue.	Existing	Flood		Netcong Borough Engineer / Administrator	High	Medium	FMA, PDM-C and HMGP	Short Term	Medium	SIP	PP
Netcong-2 (old Netcong 5)	Develop all-hazards public education and outreach program for hazard mitigation and preparedness.	N/A	All		County and Municipal OEM	Medium	Low	PDM-C, HMGP, Borough	Short Term	High	EAP	PI
Netcong-3	When updating municipal ordinances, make hazard mitigation a priority.	N/A	All		Borough Engineer	Medium	Low	Borough	OG	Medium	LPR	P R
Netcong-4	Continue incorporating plans and practices to protect natural resources within the Borough.	N/A	All		Borough Engineer	Medium	Low	Borough	OG	Medium	LPR	P R
Netcong-5	Continue to incorporate hazard mitigation actions into daily operations of the Borough and make all projects a goal of the Borough.	N/A	All		Borough Engineer	Medium	Low	Borough	OG	Medium	LPR	P R
Netcong-6	Maintain practices and procedures that are currently in place to protect the Borough's infrastructure.	N/A	All		Borough Engineer	Medium	Low	Borough	OG	Medium	LPR	P R

**Notes:**

Not all acronyms and abbreviations defined below are included in the table.

\*Does this mitigation initiative reduce the effects of hazards on new and/or existing buildings and/or infrastructure? Not applicable (N/A) is inserted if this does not apply.

Acronyms and Abbreviations:

CAV Community Assistance Visit

CRS Community Rating System

DPW Department of Public Works

FEMA Federal Emergency Management Agency

FPA Floodplain Administrator

HMA Hazard Mitigation Assistance

N/A Not applicable

NFIP National Flood Insurance Program

NJDEP New Jersey Department of Environmental Protection

NJOEM New Jersey Office of Emergency Management

OEM Office of Emergency Management

Potential FEMA HMA Funding Sources:

FMA Flood Mitigation Assistance Grant Program

HMGP Hazard Mitigation Grant Program

PDM Pre-Disaster Mitigation Grant Program

RFC Repetitive Flood Claims Grant Program

SRL Severe Repetitive Loss Grant Program

Short

1 to 5 years

Long Term

5 years or greater

OG

On-going program

DOF

Depending on funding

Timeline:





Costs:

Where actual project costs have been reasonably estimated:

Low	< \$10,000
Medium	\$10,000 to \$100,000
High	> \$100,000

Where actual project costs cannot reasonably be established at this time:

Low	Possible to fund under existing budget. Project is part of, or can be part of an existing on-going program.
Medium	Could budget for under existing work plan, but would require a reapportionment of the budget or a budget amendment, or the cost of the project would have to be spread over multiple years.
High	Would require an increase in revenue via an alternative source (i.e., bonds, grants, fee increases) to implement. Existing funding levels are not adequate to cover the costs of the proposed project.

Mitigation Category:

- Local Plans and Regulations (LPR) – These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.
- Structure and Infrastructure Project (SIP)- These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures as well as critical facilities and infrastructure. This type of action also involves projects to construct manmade structures to reduce the impact of hazards.
- Natural Systems Protection (NSP) – These are actions that minimize damage and losses, and also preserve or restore the functions of natural systems.
- Education and Awareness Programs (EAP) – These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady and Firewise Communities

CRS Category:

- Preventative Measures (PR) - Government, administrative or regulatory actions, or processes that influence the way land and buildings are developed and built. Examples include planning and zoning, floodplain local laws, capital improvement programs, open space preservation, and storm water management regulations.
- Property Protection (PP) - These actions include public activities to reduce hazard losses or actions that involve (1) modification of existing buildings or structures to protect them from a hazard or (2) removal of the structures from the hazard area. Examples include acquisition, elevation, relocation, structural retrofits, storm shutters, and shatter-resistant glass.
- Public Information (PI) - Actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. Such actions include outreach projects, real estate disclosure, hazard information centers, and educational programs for school-age children and adults.
- Natural Resource Protection (NR) - Actions that minimize hazard loss and also preserve or restore the functions of natural systems. These actions include sediment and erosion control, stream corridor restoration, watershed management, forest and vegetation management, and wetland restoration and preservation.
- Structural Flood Control Projects (SP) - Actions that involve the construction of structures to reduce the impact of a hazard. Such structures include dams, setback levees, floodwalls, retaining walls, and safe rooms.
- Emergency Services (ES) - Actions that protect people and property during and immediately following a disaster or hazard event. Services include warning systems, emergency response services, and the protection of essential facilities

Benefits:

Where possible, an estimate of project benefits (per FEMA's benefit calculation methodology) has been evaluated against the project costs, and is presented as:

Low=	< \$10,000
Medium	\$10,000 to \$100,000
High	> \$100,000

Where numerical project benefits cannot reasonably be established at this time:

Low	Long-term benefits of the project are difficult to quantify in the short term.
Medium	Project will have a long-term impact on the reduction of risk exposure to life and property, or project will provide an immediate reduction in the risk exposure to property.
High	Project will have an immediate impact on the reduction of risk exposure to life and property.



Table 9.30-12. Summary of Prioritization of Actions

Mitigation Action/Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
Netcong-1 (old Netcong 2)	Flood proofing Municipal Building/ Police Department (data storage) on 23 Maple Avenue.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	Medium
Netcong-2 (old Netcong 5)	Develop all-hazards public education and outreach program for hazard mitigation and preparedness.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	High
Netcong-3	When updating municipal ordinances, make hazard mitigation a priority.	1	1	1	1	0	0	0	0	0	1	1	1	0	0	7	Medium
Netcong-4	Continue incorporating plans and practices to protect natural resources within the Borough.	1	1	1	1	0	0	0	0	0	1	1	1	0	0	7	Medium
Netcong-5	Continue to incorporate hazard mitigation actions into daily operations of the Borough and make all projects a goal of the Borough.	1	1	1	1	0	0	0	0	0	1	1	1	0	0	7	Medium
Netcong-6	Maintain practices and procedures that are currently in place to protect the Borough's infrastructure.	1	1	1	1	0	0	0	0	0	1	1	1	0	0	7	Medium

Note: Refer to Section 6 which contains the guidance on conducting the prioritization of mitigation actions.



### **9.30.7 Future Needs To Better Understand Risk/Vulnerability**

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None at this time.

### **9.30.8 Hazard Area Extent and Location**

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Hazard area extent and location maps have been generated for the Borough of Netcong that illustrate the probable areas impacted within the municipality. These maps are based on the best available data at the time of the preparation of this plan, and are considered to be adequate for planning purposes. Maps have only been generated for those hazards that can be clearly identified using mapping techniques and technologies, and for which the Borough of Netcong has significant exposure. These maps are illustrated in the hazard profiles within Section 5.4, Volume I of this Plan.

### **9.30.9 Additional Comments**

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None at this time.



Figure 9.30-1. Borough of Netcong Hazard Area Extent and Location Map 1

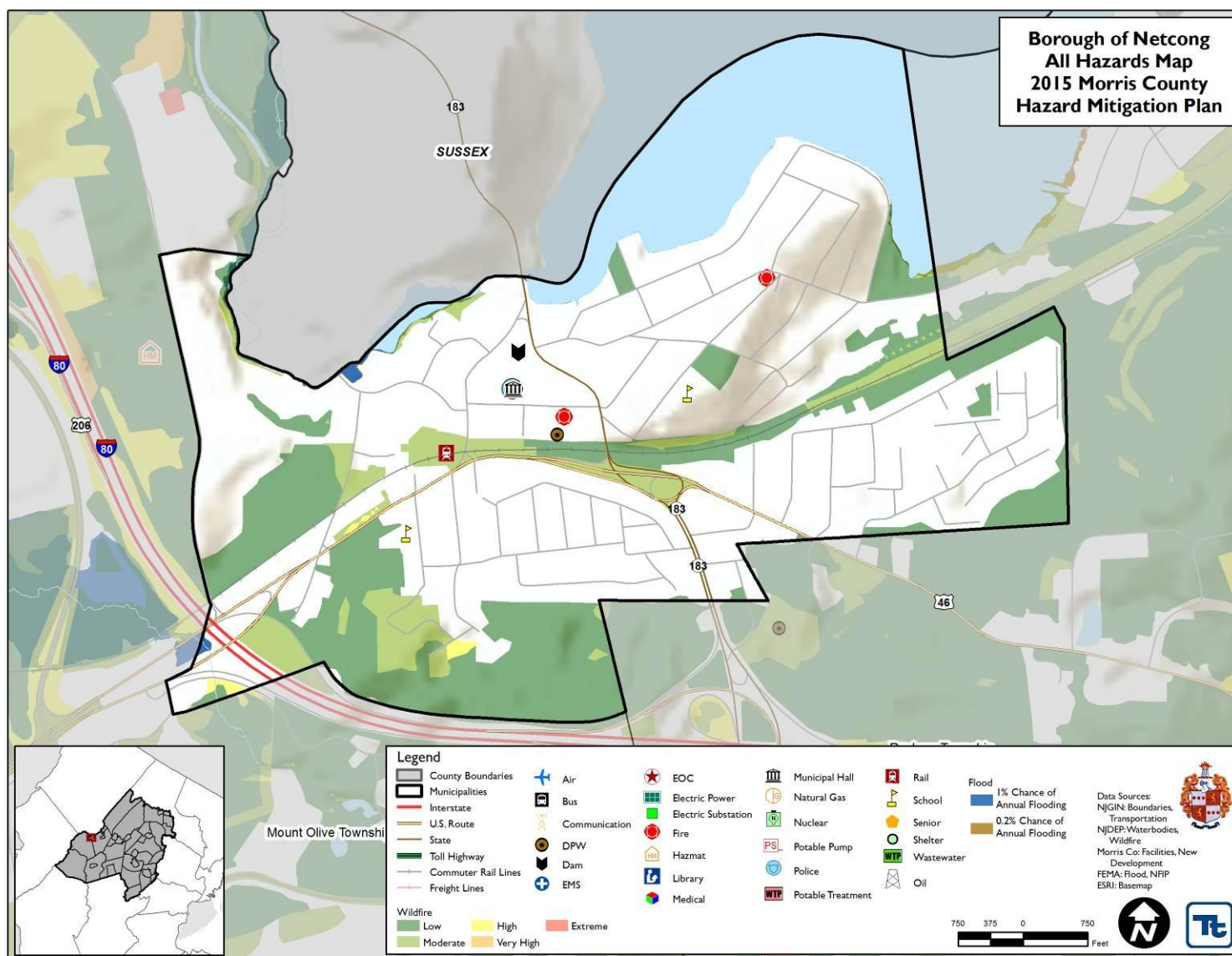
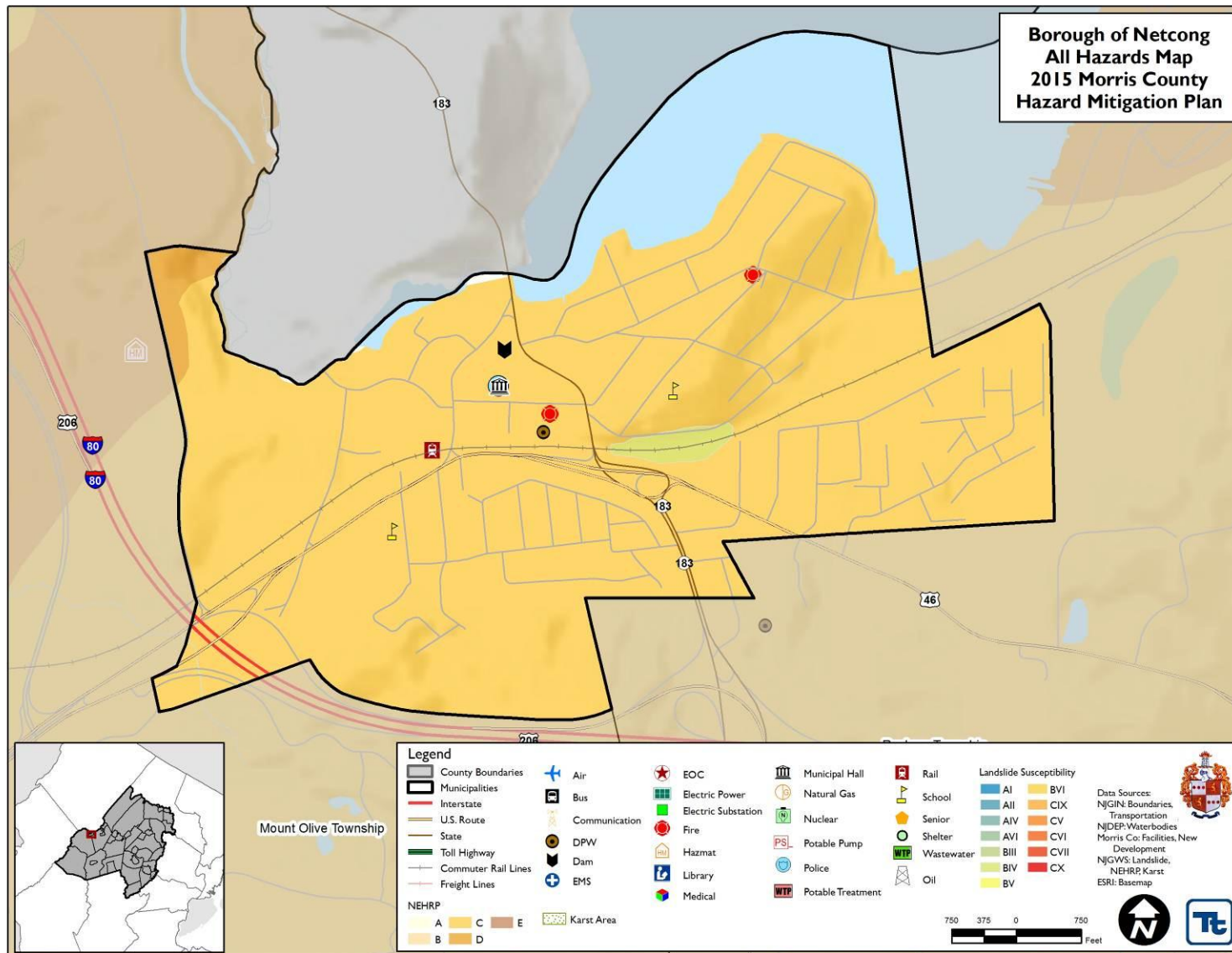




Figure 9.30-2. Borough of Netcong Hazard Area Extent and Location Map 2





Action Number:

Netcong-1 (old Netcong-2)

Mitigation Action/Initiative:

Flood proofing municipal building / police department

Assessing the Risk	
Hazard(s) addressed:	Flood
Specific problem being mitigated:	The municipal building and data storage for the police department, located at 23 Maple Avenue, floods and impacts this critical facility.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	1. Floodproof the municipal building / police department (data storage) at 23 Maple Avenue
	2. Do nothing – current problem continues
	3. No other feasible options were identified
Action/Project Intended for Implementation	
Description of Selected Action/Project	Determine most appropriate mitigation measure to prevent flood damage of municipal building and complete the project as deemed appropriate.
Action/Project Category	SIP
Goals/Objectives Met	3
Applies to existing and/or new development; or not applicable	Existing
Benefits (losses avoided)	Medium
Estimated Cost	Medium
Priority*	Medium
Plan for Implementation	
Responsible/Lead Agency/Department	Engineer and Administrator
Local Planning Mechanism	Capital Improvement
Potential Funding Sources	FMA, PDM-C and HMGP
Timeline for Completion	Short Term
Reporting on Progress (Do not complete – this will be used for the 2020 Update)	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

\* Refer to results of Prioritization (page 2)



Action Number:

Netcong-1 (old Netcong-2)

Mitigation Action/Initiative:

Flood proofing municipal building / police department

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety		Continuity of operations and public safety
Property Protection		
Cost-Effectiveness		
Technical		
Political		
Legal		
Fiscal		
Environmental		
Social		
Administrative		
Multi-Hazard		
Timeline		
Local Champion		
Other Community Objectives		
Total		
Priority (High/Med/Low)	Medium	